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To the Honorable Commissioner of Patents

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1. Name of conveying party(ies):

John J. Rodden
Homer D. Stevens
Stephane Carrou

Name: Space Systems/Loral, Inc.

Internal Address: _____

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Street Address: 3825 Fabian Way

City: Palo Alto State: CA ZIP: 94303

Execution Date: 11/5/99

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/363,680

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David M. Warren

Internal Address: Perman & Green, LLP

Street Address: 425 Post Road

City: Fairfield State: CT ZIP: 06430

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:
16-1350

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

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Name of Person Signing

Mark F. Harrington
Signature

11/10/99
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Total number of pages including cover sheet, attachments, and document: 5

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For: U.S. and/or Foreign Rights
For: U.S. Application or
 U.S. Provisional Application
For: U.S. Patent
For: PCT Application
By: Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS (Inventors):

<u>John J. Rodden</u> <i>(type or print name of inventors)</i>	<u>2071 Robinhood Lane Los Altos, CA 94024</u>	<u>USA</u>
<u>Homer D. Stevens</u>	<u>Address 912 Roosevelt Avenue</u>	Nationality
<u>Stephane Carrou</u>	<u>Redwood City, CA 94061</u>	<u>USA</u>
<u> </u>	<u>1880 Valparaiso Avenue Menlo Park, CA 94025</u>	<u>France</u>
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(Assignment of invention—Multiple Inventors [16-3.2]—page 1 of 3)

hereby sells, assigns and transfers to

ASSIGNEE:

Space Systems/Loral, Inc.

3825 Fabian Way
Palo Alto, CA 94303

(type or print name of ASSIGNEE)

Address

USA

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- the entire right, title and interest
- an undivided _____ percent (_____ %) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

- and in all foreign countries, including all rights to claim priority

in and to any and all improvements which are disclosed in the invention entitled:

ADAPTIVE MASS EXPULSION ATTITUDE CONTROL SYSTEM

(check and complete (a), (b), (c), (d), (e), (f), or (g))

and which is found in (37 C.F.R. § 3.21)

- (a) U.S. patent application executed on even date herewith
- (b) U.S. patent application executed on _____
- (c) U.S. provisional application naming the above inventor(s) for the above-entitled invention
 - Express mail label no.: _____
Mailed: _____
 - To comply with 37 C.F.R. § 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) U.S. application no. 09 / 363,680 filed on 07/29/99
- (e) International application no. PCT / _____ / _____
filed on _____
- (f) U.S. patent no. _____ issued _____
 - A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(check (g), if foreign application(s) is also being assigned)

- (g) and any legal equivalent thereof in a foreign country, including the right to claim priority

(Assignment of Invention—Multiple Inventors [16-3.2]—page 2 of 3)

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this 11/05/99
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

John J. Rodden
(type name of inventor)

John J. Rodden
Signature of INVENTOR

Homer D. Stevens

Homer D. Stevens

Stephane Garrou

Stephane Garrou

Notarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution. 35 U.S.C. § 261. Use next page if notarization is desired.

(Assignment of Invention—Multiple Inventors [16-3.2]—page 3 of 3)

NOTARIZATION OR LEGALIZATION ACCOMPANYING ASSIGNMENT

NOTE: Executing this page is not required for assignment, and is only prima facie evidence of execution. 35 USC 261.

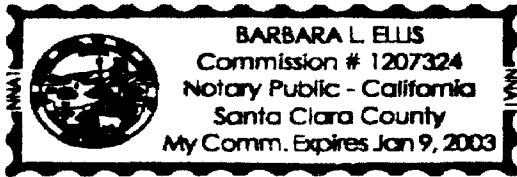
Details of Country United States of America
and place of signing of assignment State of California
County of Santa Clara

Before me this 5th day of November 1999, personally appeared the above named individual(s), to me known to be the person(s) who is are described in, and who executed the foregoing assignment instrument and acknowledged to me that

- | | | |
|--|----------------------|---|
| <input type="checkbox"/> he | | <input type="checkbox"/> his |
| <input type="checkbox"/> she | executed the same of | <input type="checkbox"/> her |
| <input checked="" type="checkbox"/> they | | <input checked="" type="checkbox"/> their |

own free will for the purpose therein expressed.

Barbara L. Ellis
Notary Public or Consular Officer of the
United States of America
Barbara L. Ellis



(Notarization or Legalization Accompanying Assignment [16-4])